

FIG.1

REPLACEMENT SHEET

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- a ————— Volume at FE (2-stroke) ou FA (4-stroke)
- b ----- Intake pressure P2
- c ✕ ✕ ✕ ✕ Volume of cooled air V_c delivered by the compressors
- d ● ● ● ● Volume of cooled air retained in the cylinder
- e ○ ○ ○ ○ Mass of fresh air retained in the cylinder

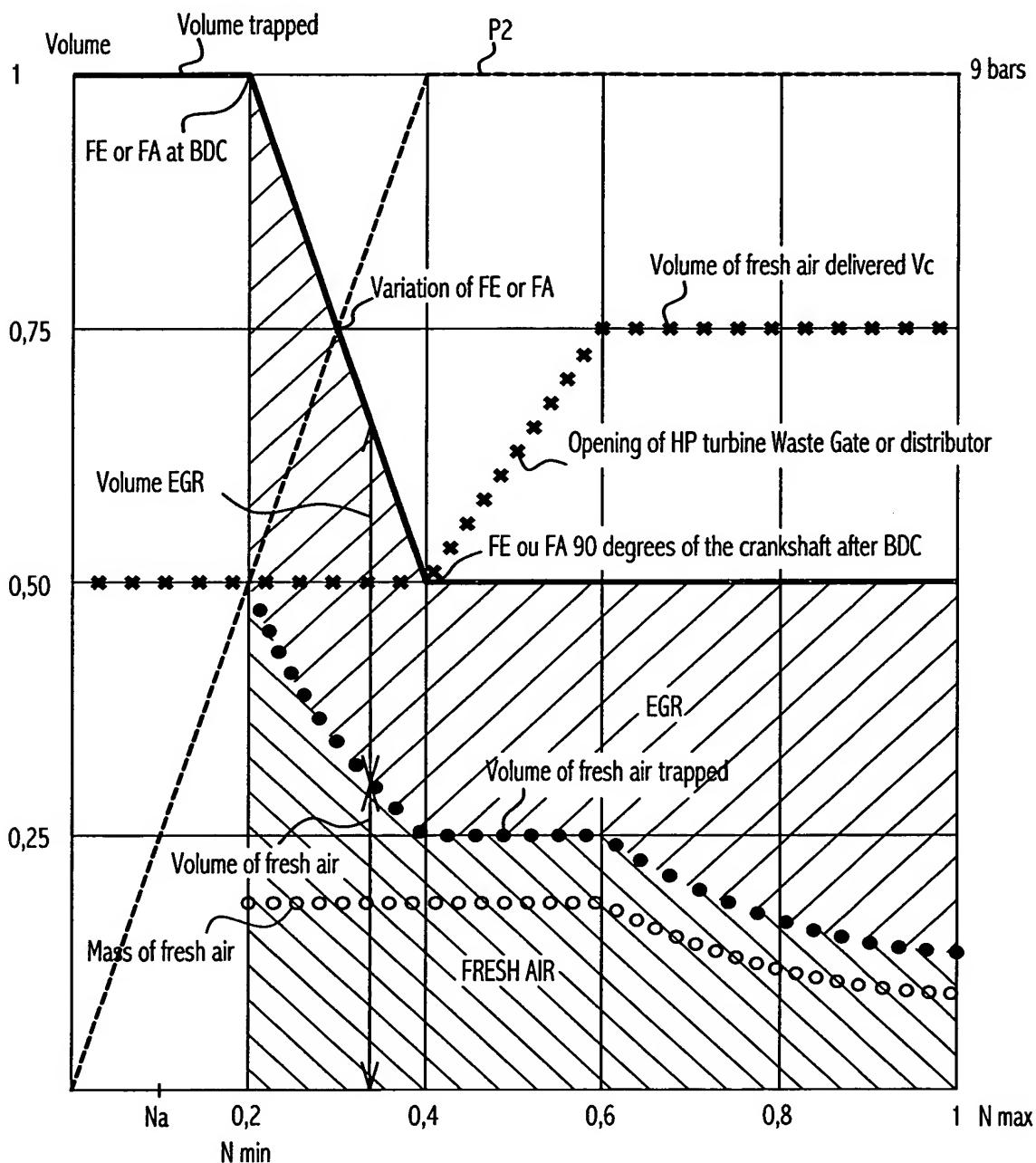


FIG.2

SERIES CONFIGURATION-VARIABLE TIMING OF THE VALVES
PME

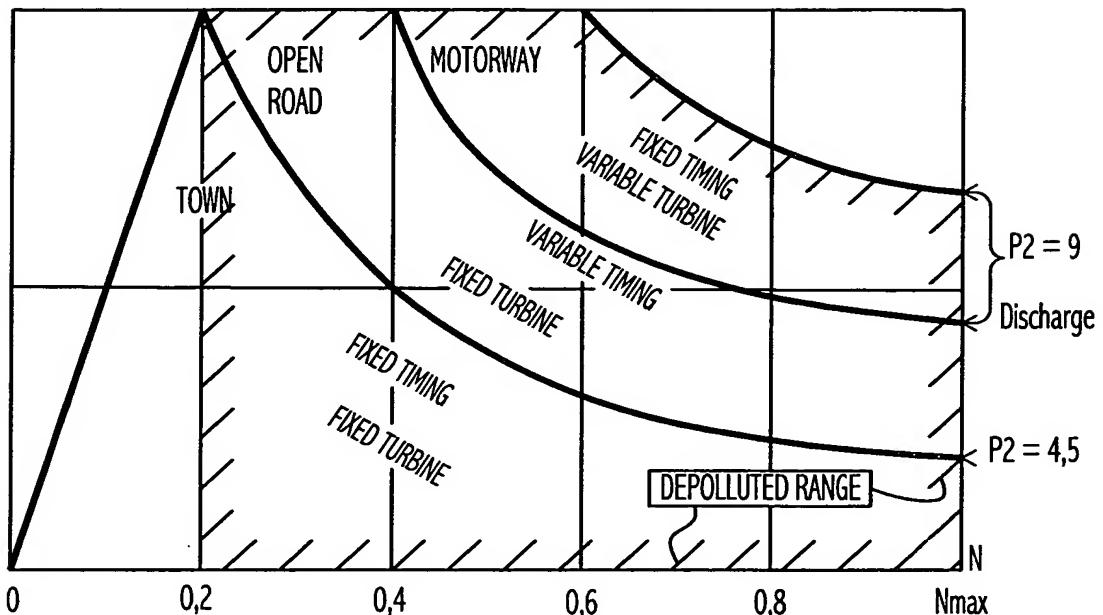


FIG.3A

SERIES / PARALLEL CONFIGURATION - FIXED TIMING OF THE VALVES
PME

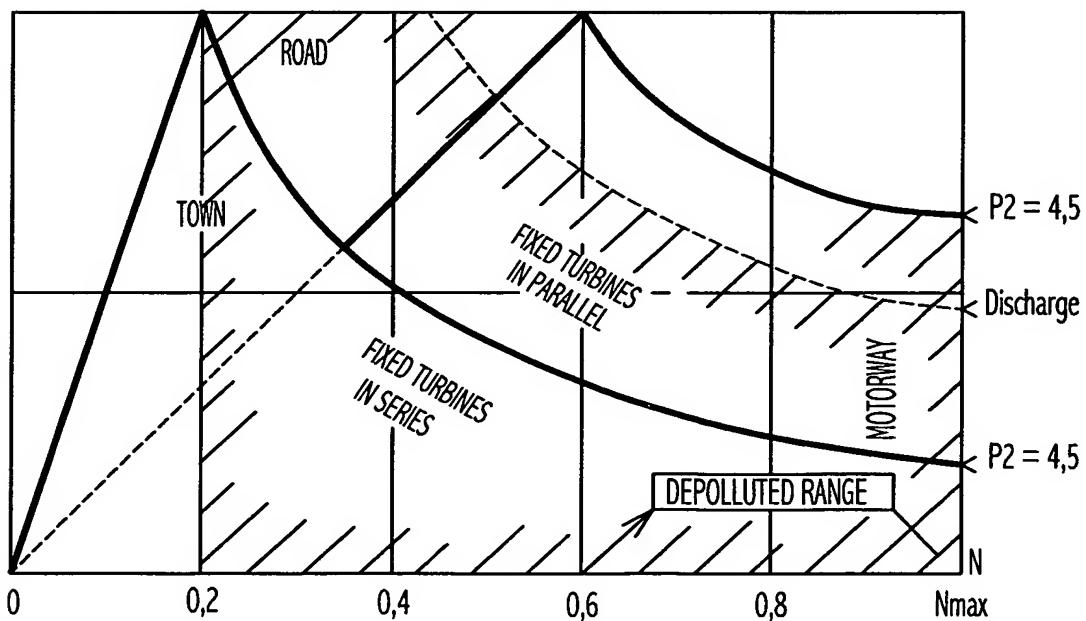


FIG.3B

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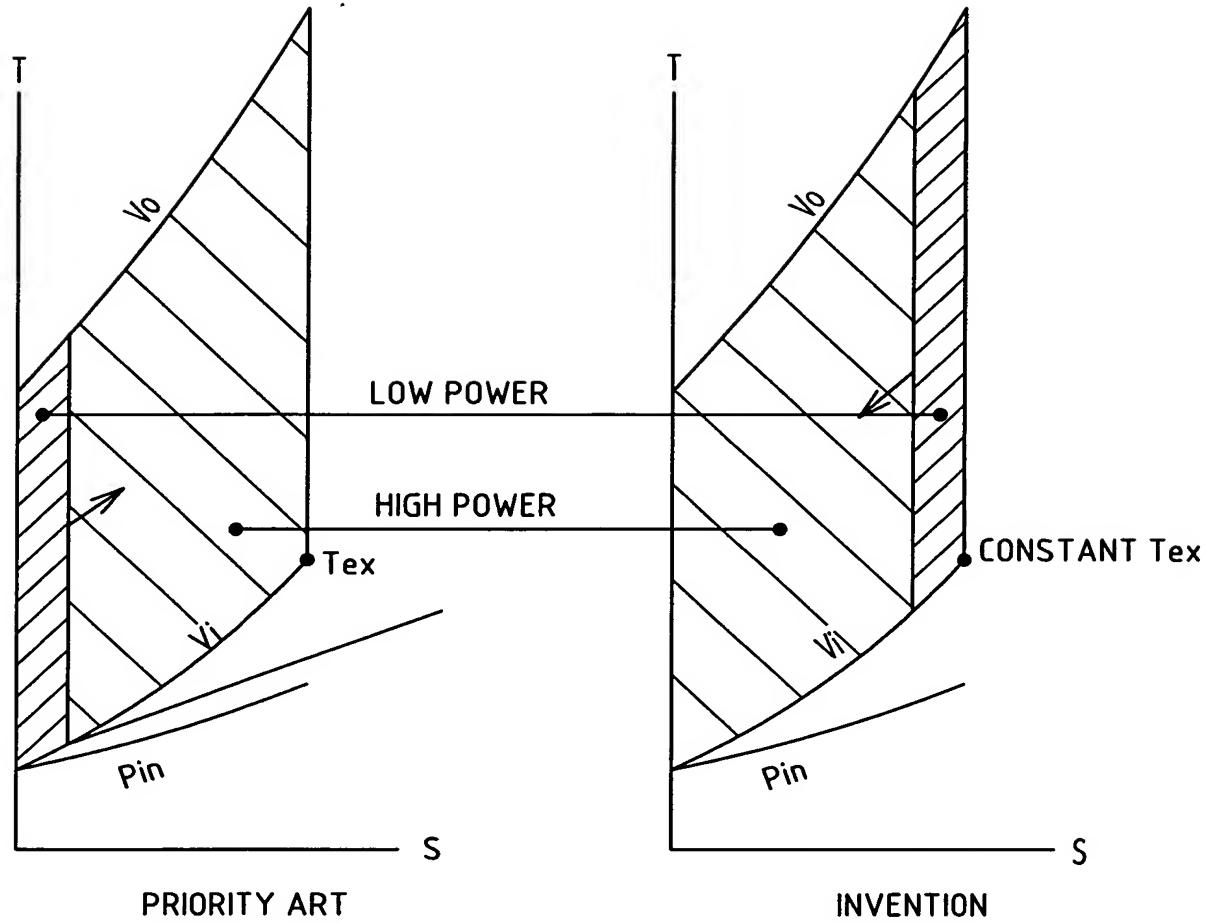
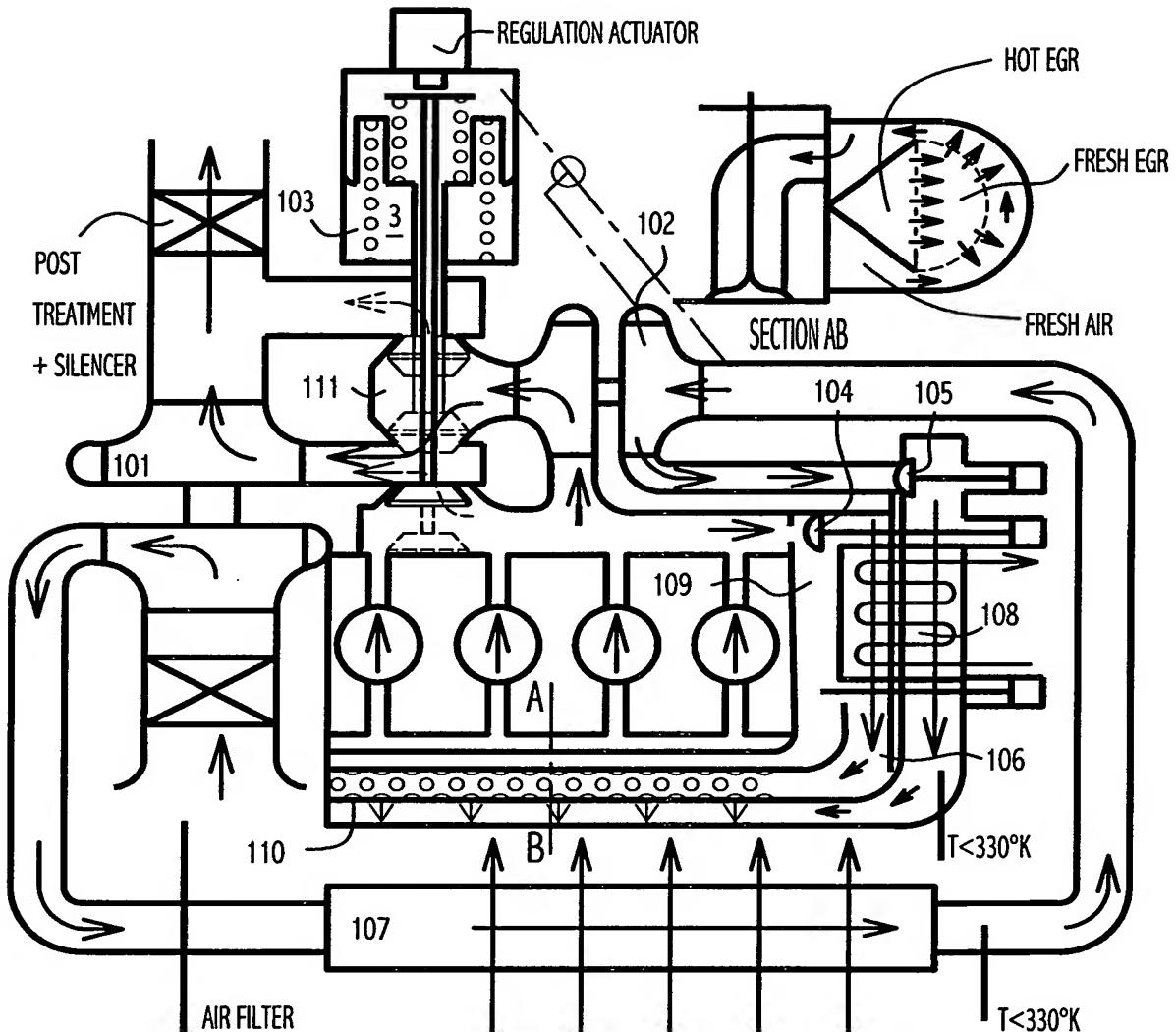


FIG.4



101. HP TURBOCHARGER
 102. LP TURBOCHARGER
 103. HP/LP DOUBLE WASTE GATE WITH ELECTRIC CONTROL AND PNEUMATIC ROCKING
 104. CONTROLLED EGR VALVE
 105. CONTROLLED INTAKE VALVE

106. CONTROLLED EGR COOLANT BYPASS GUILLOTINE
 107. LP AIR/AIR COOLANT
 108. HP AIR/WATER EGR COOLANT
 109. GAS/WATER EGR COOLANT
 110. MIXER OF HOT EGR/COLD EGR/FRESH AIR
 111. HP TURBINE OUTLET CONDUIT

FIG.5

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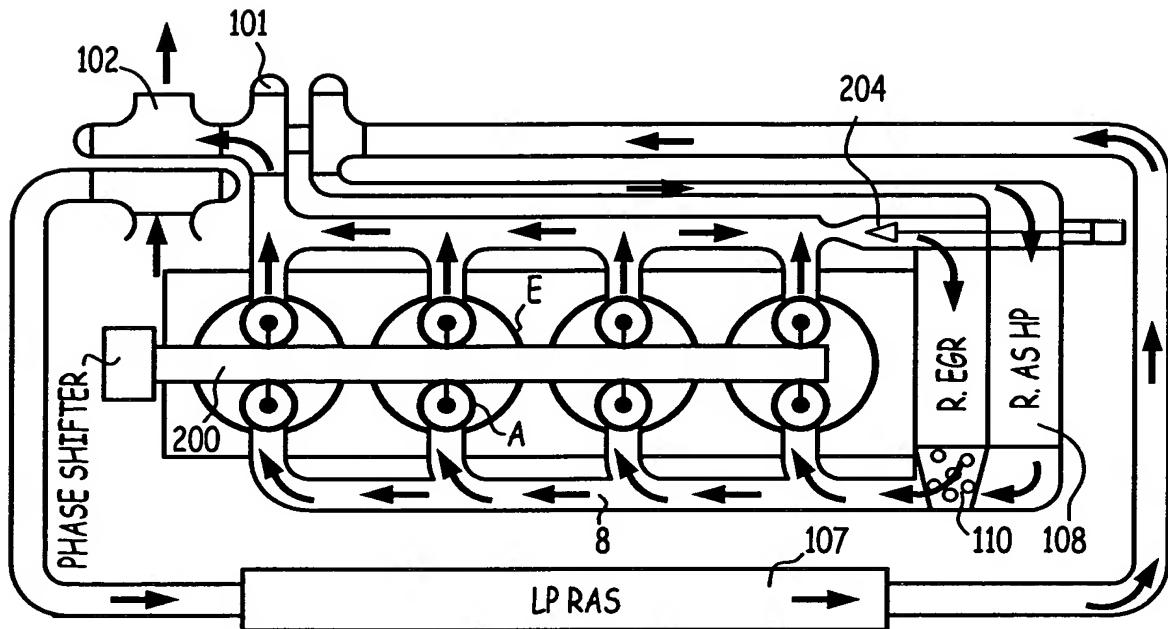


FIG.6

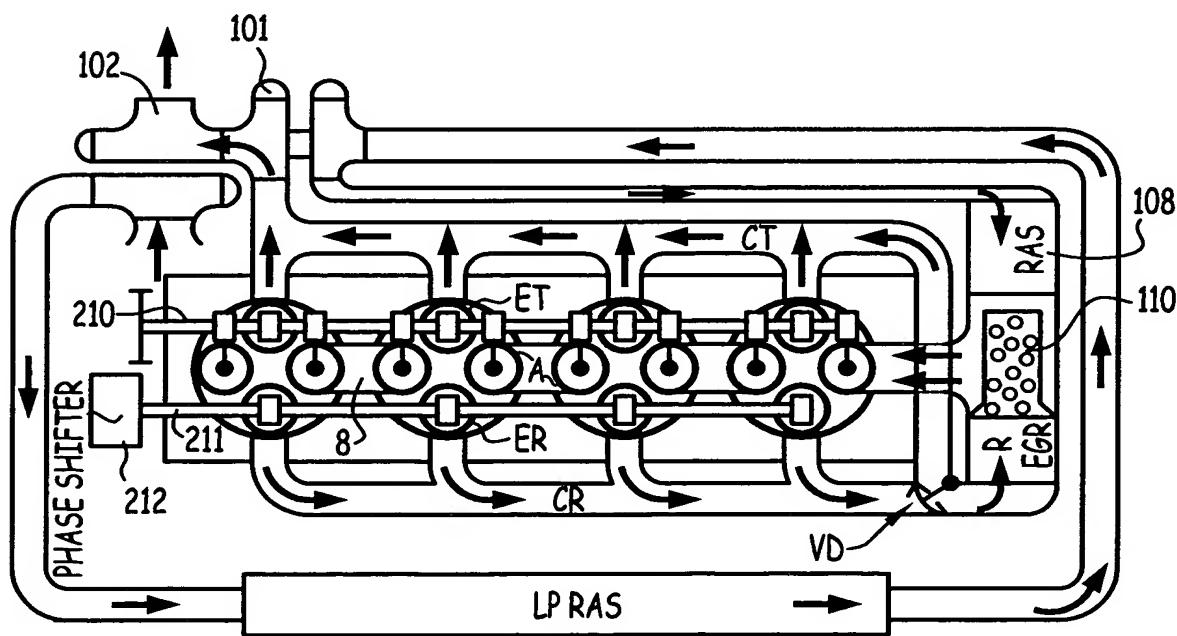
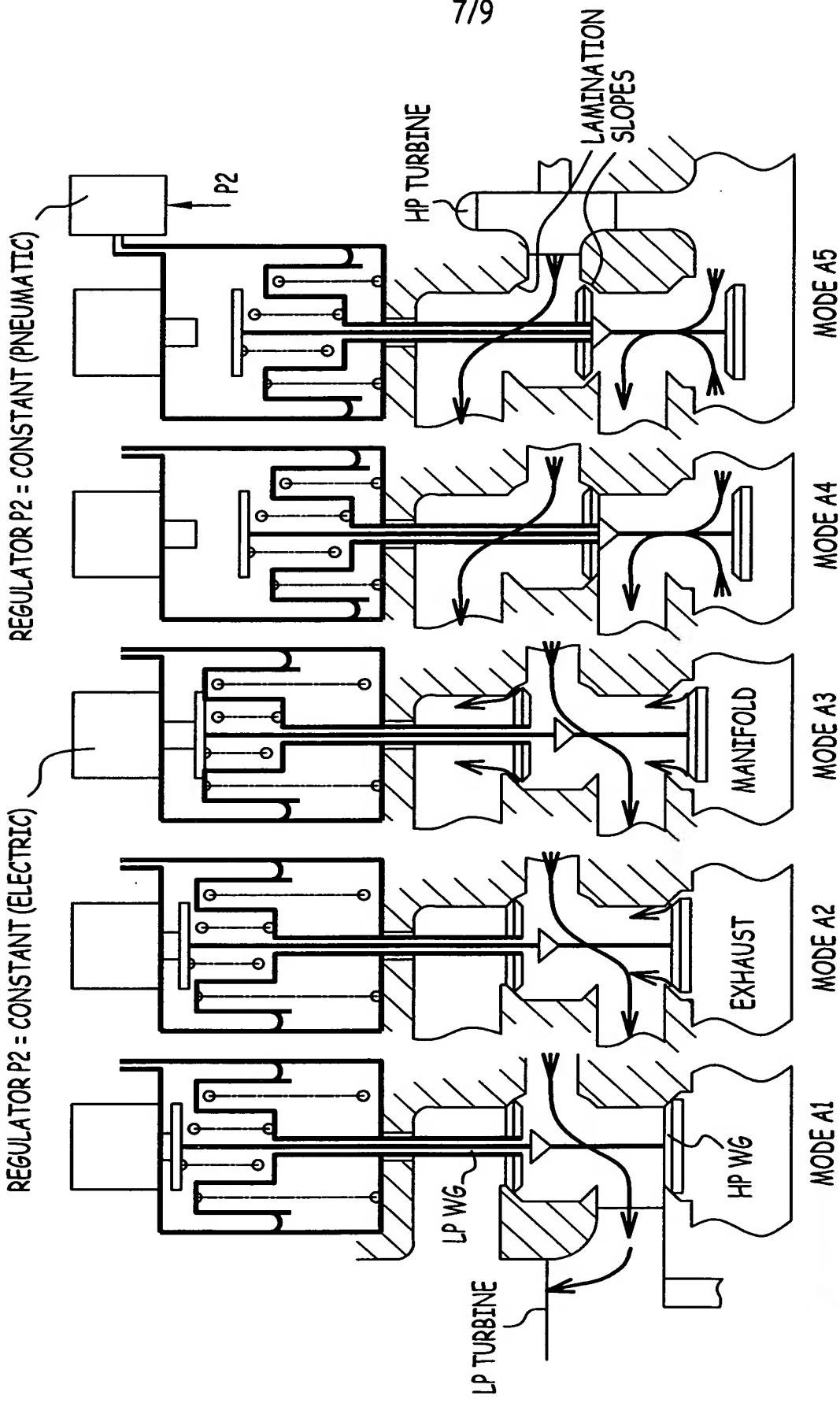


FIG.7

FIG. 8

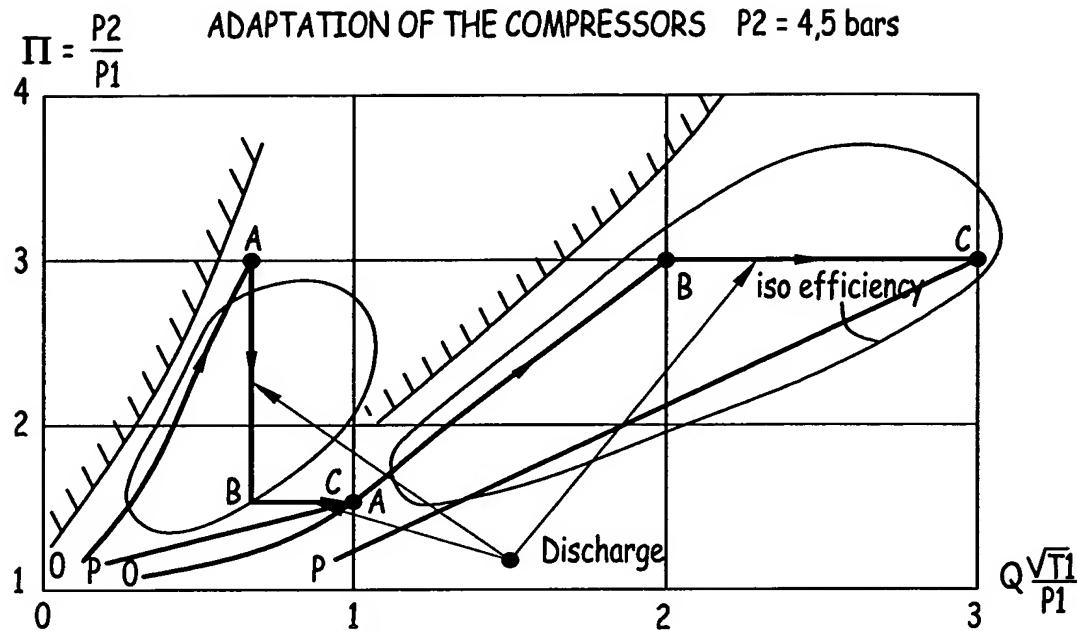


FIG.9

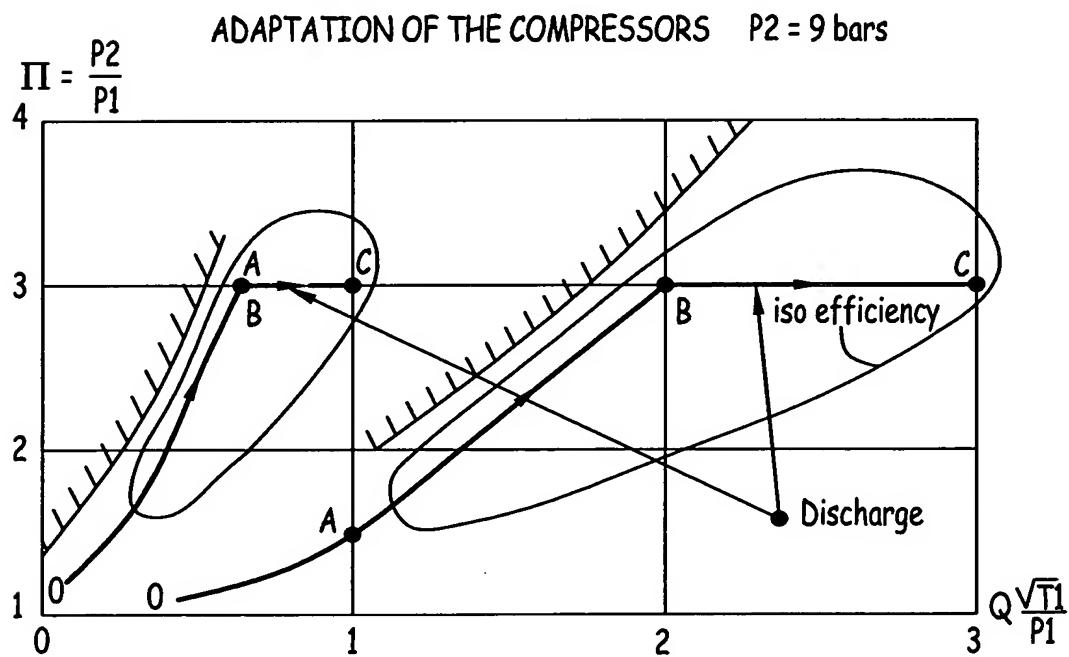


FIG.10

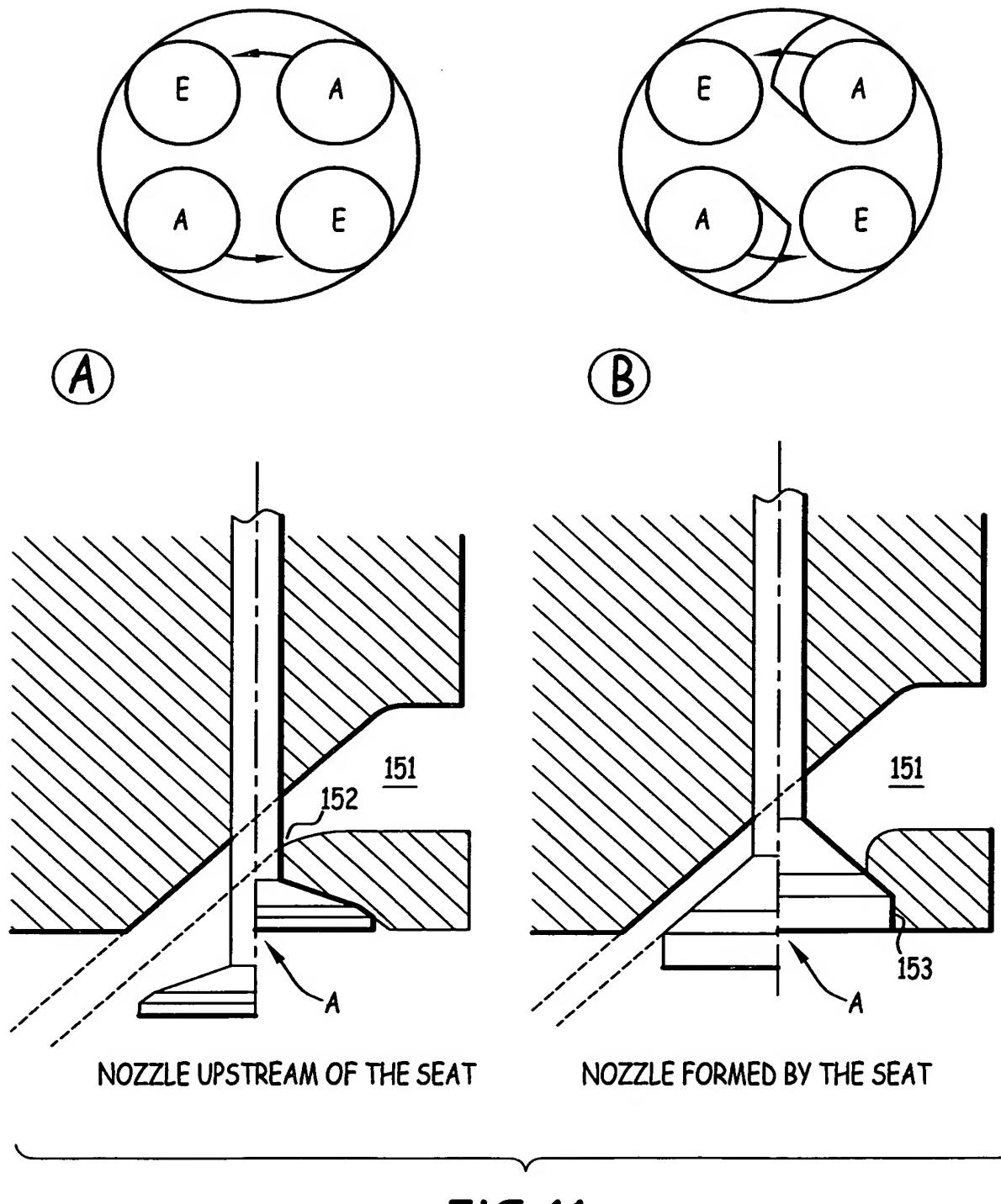


FIG. 11